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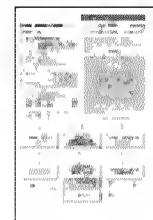
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**Derwent Title:** High strength steel for oil well - comprises carbon, silicon, manganese, chromium, molybdenum, aluminium, boron, zirconium and/or hafnium, niobium, etc. [\[Derwent Record\]](#)


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**Country:** JP Japan  
**Kind:** A DOC. LAID OPEN TO PUBL. INSPEC. [PUBLISHED FROM 1971 ON] !

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 IKEDA AKIO;

**Assignee:** SUMITOMO METAL IND LTD  
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**Application Number:** JP1986000145913

**IPC Code:** Advanced: C22C 38/00; C22C 38/54;  
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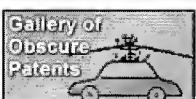
**Abstract:** PURPOSE: To obtain the titled steel free from deterioration due to plastic deformation, by forming a steel stock in which kinds and additive quantities of alloy components are properly regulated and respective contents of impurities are limited into a structure composed principally of tempered martensite which is formerly fine-grained austenite.

CONSTITUTION: The steel stock which consists of, by weight, 0.15W0.45% C, 0.1W0.8% Si, 0.2W0.8% Mn, 0.2W<1.0% Cr, 0.05W0.8% Mo, 0.005W0.060% Al, 0.0001W0.0030% B, 0.01W0.15% Zr and/or 0.001W0.150% Hf, one or more kinds among 0.01W0.15% Nb, 0.01W0.15% V, and 0.01W0.15% Ti, and the balance essentially Fe and in which quantities of P, S, Cu, Ni, N, and O among inevitable impurities are limited to ≤0.01%, ≤0.005%, ≤0.15%, ≤0.05%, ≤0.0150%, and ≤0.0050%, respectively, is subjected to hardening at a relatively low heating temp. to undergo formation of austenite grains of ≤1.6μm average grain size. Subsequently, a structure composed principally of tempered martensite which is formerly the above austenite is formed, so that high-tensile steel for oil well excellent in resistance to sulfide cracking can be obtained.

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**Family:** None

**Other Abstract Info:** CHEMABS 108(18)154558Y CAN108(18)154558Y DERABS C88-046358 DERC88-046358



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